WHAT IS CLAIMED IS

- 1. A low-pressure discharge lamp comprising a tubular glass lamp vessel on an outer surface of which a conductor layer is formed as an electrode, wherein the conductor layer is a solder dipping layer formed by solder dipping and the solder dipping layer has a main component of any one of tin, an alloy of tin and indium, or an alloy of tin and bismuth.
- 2. A low-pressure discharge lamp according to Claim

 1, wherein the solder dipping layer contains at least one
 of antimony, zinc, or aluminum as an additive.
- 3. A low-pressure discharge lamp according to Claim 2, wherein a part of a surface of the tubular glass lamp vessel, where the solder dipping layer is formed, is blasted.
- 4. A low-pressure discharge lamp comprising a tubular glass lamp vessel on an outer surface of which a conductor layer is formed as an electrode, wherein the conductor layer is an ultrasonic solder dipping layer formed by ultrasonic solder dipping.
- 5. A low-pressure discharge lamp according to Claim 4, wherein the ultrasonic solder dipping layer has a main component of any one of tin, an alloy of tin and indium, or an alloy of tin and bismuth.
- 6. A low-pressure discharge lamp according to Claim5, wherein the ultrasonic solder dipping layer contains

at least one of antimony, zinc, or aluminum as an additive.

- 7. A low-pressure discharge lamp according to Claim 6, wherein a part of a surface of the tubular glass lamp vessel where the ultrasonic solder dipping layer is formed is blasted.
- 8. A low-pressure discharge lamp according to Claim 7, wherein the ultrasonic solder dipping layer contains no lead component.
- 9. A method for manufacturing a low-pressure discharge lamp, comprising steps of:

preparing a fused solder bath having a main component of either one of an alloy of tin and indium or an alloy of tin and bismuth,

dipping an end of a tubular glass lamp vessel into the fused solder bath, and

forming solder dipping layers on the end of the tubular glass lamp vessel used for an external electrode.

- 10. A method for manufacturing a low-pressure discharge lamp according to Claim 9, further comprising a step of blasting a surface of the end of the tubular glass lamp vessel before dipping the ends of the tubular glass lamp vessel into the fused solder bath.
- 11. Amethod for manufacturing a low-pressure discharge lamp according to Claim 10, wherein the fused solder contains at least one of antimony, zinc, or aluminum as an additive.

- 12. Amethod for manufacturing a low-pressure discharge lamp according to Claim 11, wherein the fused solder contains no lead component.
- 13. A method for manufacturing a low-pressure discharge lamp, comprising steps of:

dipping an end of a tubular glass lamp vessel into an ultrasonic solder bath, and

forming an ultrasonic solder dipping layer on an end of the tubular glass lamp vessel used for an external electrode.

- 14. Amethod for manufacturing a low-pressure discharge lamp according to Claim 13, wherein the ultrasonic solder has a main component of any one of tin, an alloy of tin and indium or an alloy of tin and bismuth.
- 15. Amethod for manufacturing a low-pressure discharge lamp according to Claim 14, wherein the ultrasonic solder contains at least one of antimony, zinc or aluminum as an additive.
- 16. A method for manufacturing a low-pressure discharge lamp according to Claim 15, wherein the ultrasonic solder contains no lead component.
- 17. A method for manufacturing a low-pressure discharge lamp, comprising steps of:

blasting a surface of an end of a tubular glass lamp vessel, and

dipping the end of the tubular glass lamp vessel into

an ultrasonic solder bath to form an ultrasonic solder dipping layer used for external electrodes.

- 18. Amethod for manufacturing a low-pressure discharge lamp according to Claim 17, wherein the ultrasonic solder has a main component of any one of tin, an alloy of tin and indium or an alloy of tin and bismuth.
- 19. Amethod for manufacturing a low-pressure discharge lamp according to Claim 18, wherein the ultrasonic solder contains at least one of antimony, zinc or aluminum as an additive.
- 20. Amethod for manufacturing a low-pressure discharge lamp according to Claim 19, wherein the ultrasonic solder contains no lead component.